

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: "Emil Switzer" <switzer_e%a1.clust.CLUST.umc@engult.lxe.com>
Subject: Re: 6AL5's
Message-ID: <65500142106991/86853@CLUST>

To: Boatanchors

What can go wrong with 6AL5's?

These are commonly used as detectors for driving agc circuits in most of our favorite receivers. Get a leaky one and the whole agc heads down hill. FWIW

73, Emil

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996
From: morriso@vifp.monash.edu.au (Morris Odell)
Subject: Re: 6C4 and Others?
Message-ID: <199601250816.TAA28695@vifp.monash.edu.au>

Sandy wrote:

>I've always had pretty good luck with 6C4's! World's BEST radio tube has
>got to
>be
>the 6AL5 or its father, the 6H6. In "normal" applications., they NEVER go bad!

This could start an interesting thread. I'm not sure about long lasting bottles but sure know a lot about short lived ones! I nominate the 6A7/6A8 converter as the most unreliable tube - it's probably related to being one of the first pentagrids and the technology wasn't quite right.

Morris VK3DOC
morriso@vifp.monash.edu.au

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>
Subject: Administrivia: Re: Missing Digest 435
Message-ID: <9601240705.aa04257@jackatak.theporch.com>

Gang-

I have NO clue as to what happened, but apparently something caused the mystery digest, #435, to get wedged in the queue...

And suddenly this morning, out it popped! Hmmmmmm.

Most curious, but all you digest subscribers should see a new one from a while back, and I can only wonder what happened...

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)

- - - BoatAnchor Mailing List Archiver/Owner - - -

listown@jackatak.theporch.com ---- firebotl@jackatak.theporch.com

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996

From: kj7f@micron.net (Terry Dobler)

Subject: Re: AGC question

Message-ID: <m0tf8Ar-000QYIC@mis01.micron.net>

In the beginning I said...

>> I have been getting a tired Heathkit MR-1 receiver running again
>> and wondering about the AGC. It develops AGC just fine but there is
>> absolutely no decay rate. The meter swings along with the voice
>> peaks.
<snip>

and Henry kindly replied...

>The time constant on an AVC bus should be somewhere between a quarter
>and a half second. With a 1 megohm decoupling cap off the detector
>output, this works out to .05 mfd for a half second.
<snip>

My brain must be in the pause mode, wouldn't 1 Meg and a .05 mfd give a TC of .05 Sec?

>A common fault is for one of those
>bypasses to become leaky, which will make the AVC follow the audio too
>closely.
<snip>

I took a look at the AGC on the scope and could see low frequency audio on the AGC rail. The IF is coupled to the diode through a 50 pf capacitor and the rectified output is fed to a .01 cap through a 1 meg resistor. The AGC line has a measured load of 600 KOhms. From this arrangement it would appear the Heath intended the AGC to act the way it does but to my ear it is causing annoying distortion. I think I might play around with the AGC TC and see if I can't find a compromise that I find more pleasing.

Thanks to all who replied.

Terry KJ7F
kj7f@micron.net

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Re: Antenna names, etc...
Message-ID: <01I0DTG735RS003TZ0@ACS.EKU.EDU>

Boy, does that bring back memories! In 1965 I was an Air Force communications officer in Tactical Air Command, which meant that when the army went out into the woods somewhere, we went along to set up radar and communications for tactical air control.

We flew into San Isidro AB, outoutside of Ciudad Trujillo (which changed its name back to Santo Domingo while we were there), and for a while the only communications we had back to the US was thru HF radio - a Collins van with two transmit/receive capability, plus a KWM-2A. "Talking Bird," the TAC communications plane was first in and we replaced it, eventually getting normal communications set up (starting with re-establishing comm with the embassy via a short vhf relay with TRC-24 equipment - San Isidro to//from the embassy).

Slightly off the BA subject - their Air Force was there at San isidro, and was comprised of about 20 WW II P-51's, which were beautiful to watch fly. Somewhere I have a photo of the entire Dominican Air Force lined up on the flight line...

Anyway, our hardest job was getting the other personnel to realize that we were not on an exercise where we could use Ma Bell to take a wire pair and talk to anyone, anywhere. When the circuits were open they could talk back to the states. When not, tough! - and your rank made no difference...

Thanks for the memories! - and I think the designation of the van was a TCS-15 or something like that. Big vertrical antenna, all autotune...

73, Al N5AIT
modsteph@acs.eku.edu

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: Bill Meara <w.meara@server1.codetel.net.do>
Subject: Antenna Names, Inspiration
Message-ID: <9601241059.AA27271@server1.codetel.net.do>

Don: I enjoyed your message re Antenna names and inspiration and homebrew rigs. We're about the same age so we must have been listening to some of the same 75 meter AM QSO's way back when. FB on Fred Laun. When I arrived in the Dominican Republic three years ago, the local hams told me about "another ham who used to work in the Embassy." They obviously liked and admired this guy very much and from the tone of their reminiscences, I thought the other ham must have been there recently. Later I learned that Fred had served in the DR in 1965! He made a very big and positive impression. Fred is the kind of guy whose name keeps popping up: Recently I bought an old batch of 1960 era QST's - there was an article by HI8XAL on ham radio in the DR. Reading a history book about the 1965 military op here, there was Fred using his ham rig to facilitate coms between the Embassy and our arriving flotilla! Exciting times.

BTW, there is some interest in Boatanchors down here. Not much gets thrown away so - in spite of the ravages of a tropical climate and a screwed up power company - there are many older rigs still occupying the many hamshacks of the Dominican Republic. Recently picked up the SP-600 that was used for MARS calls during the 1965 thing. 73 Bill N2CQR/HI8
74537.1100@compuserve.com

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996
From: Henry van Cleef <vancleef@bga.com>
Subject: AVC/AGC
Message-ID: <199601241855.MAA24487@zoom.bga.com>

Some notes on Automatic Volume Control (AVC) circuits. These are "Automatic Gain Control"----completely synonymous, but radio receiver circuits are always referred to as "AVC" in the literature.

The theory of operation of the standard setups seen in communications receivers is fairly simple. The RF and IF sections of a receiver function as the gain element in an operational amplifier. The output of the amplifier is sampled through a low-pass filter and fed back to gain-producing stages with "variable-mu" or "remote cutoff" tubes. Increasing the bias (more negative volts) on the grid of a variable-mu tube will reduce its transconductance, thus reducing amplifier gain. Note that this is different from the usual op amp layout, where the output is simply fed back to the input out of phase to a summing junction.

There are three standard configurations for sampling the amplifier output. Most common is a simple RC-filter that has a large resistor (1 megohm typical) connected to the detector output, and one or more capacitors on the AVC bus following. Less common is the use of a blocking capacitor (220 pf. typical) and a separate diode, taking signal from the plate circuit of the last IF stage, once again fed through a large resistor to an AVC bus with capacitor(s) across it to ground. Rarely found is the "delayed AVC" circuit, which uses a biased rectifier to prevent generation of an AVC voltage until the amplifier output reaches a threshold level. All three configurations are shown and discussed in Terman "Radio Engineering," Langford Smith "Radiotron Designer's Handbook," and most other design texts. One little "tip" that is not usually brought out very well in the texts is that most comm receivers have 2 or 3 IF stages, and use step-down transformers for the output of each. The purpose of multiple IF stages is to narrow bandpass through use of six or eight tuned circuits, and stepdown transformers are used to reduce overall gain. The "sampling the last IF plate" circuit will produce a much higher voltage on the AVC bus in such a configuration.

The AVC voltage on the bus is typically fed back to the ground returns of grid circuits in gain-producing stages in the RF and IF. The choices to be made by the designer are "which stages get AVC control" and "how much AVC voltage is fed to the stage." Various designs use voltage amplifiers on the AVC voltage (another way of increasing it) or dividers on input to some of the controlled stages. The original designer was confronted with the need to "tailor" the amount of gain reduction in each stage, and the values selected were typical determined by bench-testing prototypes. Worth remembering that the oscilloscopes available to most design engineers before the late 1940's were, at best, "breathing hard" at even 455 Khz., so much of this design verification was done with limited instrumentation.

Choice of stages and amount of AVC feedback, to sum up fairly quickly:

1. RF preamplifier. The primary function of this stage is to boost the signal and reduce the effects of noise introduced by the converter stage. Voltage levels in this stage are too low to introduce any serious "swamping" or non-linearity in the signal. Some radios used a sharp cutoff pentode here with no AVC, or divided-down AVC on the stage.

2. Converter. For comm receivers, the primary problem in the converter stage is local oscillator stability. The "specialty" multigrid converter tubes (6L7, 6A8, 6SA7, 6K8, 6J8, etc.) all are provided with one sharp cutoff and one remote cutoff control grid. The RF signal (and AVC) are always applied to the remote cutoff grid. However, AVC affects oscillator loading and frequency stability, and

while the 6SA7 is touted as "minimal effects" with AVC on it, there are effects. The choices are fairly simple---if you want maximum oscillator stability, don't apply AVC bias to the mixer.

3. 1ST IF. This is the point at which "swamping" can become a serious problem. It's also the stage to focus on in applying AVC bias.

4. 2ND and subsequent IF. Most designs need significant gain reduction on large signals ahead of these stages to prevent "swamping" and non-linearity. They are generally included in the AVC scheme to prevent over-boosting large signals.

I mention non-linearity. The transfer characteristic of any vacuum tube, even sharp cutoff, is non-linear. However, the transfer characteristic of a remote cutoff tube is much more non-linear. You may examine this by plotting output vs. input using various published grid-plate curves for various tubes. I think you'll quickly see that you don't want to put much more than a volt of signal on the grid of a 6SK7 at any level of bias. There are ways to compensate for the non-linearity with large signals, such as signal feedback (traditional op amp design) and use of metering resistors in cathode circuits (used heavily in Tek scopes). Most radios run the RF and IF circuits "open loop," and the fidelity of output vs. input is dominated by the transfer characteristic of the tubes.

The AVC voltage is a measure of the average RF carrier level coming into the receiver. An AM carrier, modulated 30%, will produce a fairly constant voltage relative to signal strength, measured through a filter with a bandpass of about 1/2 hz. CW will produce a signal that is a function of on/off time of the carrier, and has a substantial component down as low as 1/2 hz. SSB has a wildly-varying average RF level since there is no underlying carrier that can be sampled, and also has a substantial low-frequency component, that makes use of a simple low-pass filter difficult. One can, of course, devise "sharp attack/slow decay" methodologies that will give some measure of control for CW and SSB signals. However, there is a conflict in that the receiver needs to recover full sensitivity after a strong signal fairly quickly. Slow recovery will prevent a receiver from shifting from a strong signal to a weak one when listening to simplex communications, and will also prevent easy scanning of a frequency band with the tuning knob.

The AVC circuit impedance is the grid leak impedance for the grid circuits connected to it. Keep in mind that if you have two or three 6SK7-type tubes connected to an AVC bus, you are introducing DC resistance on the order of a megohm in their grid circuits, and this is high enough to be affected by grid current in any of the controlled stages, particularly if it is excessive (tube fault).

In most receivers, transfer from AVC to manual RF gain control is accomplished by:

1. Shorting the AVC bus to ground. Note that this not only disables AVC, but returns all of the controlled grid circuits to ground directly instead of through the AVC circuit impedance.
2. Increasing cathode bias on the RF gain-controlled stages. With variable-mu tubes like 6SK7's, this not only moves the tube transfer characteristics to a lower gain area, but also introduces some degenerative feedback if the RF gain control does not have an AC bypass across it. Also, the RF gain control may control a different set of stages than the AVC, and may have no voltage division in a set that uses dividers in the AVC.

The question of fidelity using AVC vs. manual gain control has come up, and I think my comments on manual vs. AVC will show things that might make the transfer characteristics of the RF/IF stages different using the two methods. The only real way to tell if fidelity is being affected by either scheme is to test the set, using a modulated carrier, and monitoring the signal fidelity in various stages, using different carrier levels and gain control settings. If you don't like the existing AVC characteristic in a set, you can put on your design engineer's hat and redo the thing. But I don't know of any simple "do it this way" set of changes to make to any given AVC configuration to make it "better" or "worse," either in fidelity or in attack-decay characteristics. You'll have to make your own tradeoff decisions, and do a bunch of bench testing unless you think you've got "golden ears," and most of the folks who think they do are kidding themselves.

Of course, the term "automatic volume control" seems a little strange when most receivers put out much more audio volume with strong signals than with weak signals. Home entertainment sets built in the 20's generally used RF gain control as a volume control, so an AVC circuit has characteristics similar to those the listening public was familiar with. I have seen a few designs that used a feed-forward setup and a remote cutoff stage in the audio section to reduce audio amplification as well, and these sets can come close to reducing the slope of the audio level with a wide dynamic range of carrier signals.

The detector output in most sets using diode detectors has a fairly substantial slope. A set using a 6SQ7 and a 6V6 typically will show a "no signal" detector output (at the non-diode end of the last IF secondary) of about 1/2 volt. This represents both the offset introduced by the diode and noise signal. With a "strong signal" you'll see 8-10 volts DC. Actual output vs. input depends on set gain and whether you have the AVC disabled or enabled, but a 6SK7 needs about -10 volts of bias to shut it down fairly well. The tube books talk about much higher voltages (-50 for a 6BA6) to cut the tube off

completely, but in practice, you'll generally see a set operating over about a ten volt range at the detector.

Somebody will notice that a 6SQ7 as configured in most radios has a voltage gain around 40, and that a 6V6 operating class A can be driven to full output with 12-14 volts, which may make the detector output sound high. The ten volt range is needed for AVC authority, not for adequate audio signal. Also keep in mind that weak signals will produce much less detector output, requiring use of some of that 40X voltage gain to drive the 6V6.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: "ROBERT W DOWNS, WA5CAB" <103012.2130@compuserve.com>
Subject: BC-191/375 TUNING UNITS WANTED
Message-ID: <960124130637_103012.2130_GHU38-2@CompuServe.COM>

Group,

Looking for '-A' suffix tuning units for my BC-191 (same as for BC-375). Also any suffix TU-3 or TU-4. I have several extra TU-5-B's for sale or trade & would trade the other models that I have as -B's for -A's.

73, Robert Downs, WA5CAB
103012.2130@compuserve.com

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: "ROBERT W DOWNS, WA5CAB" <103012.2130@compuserve.com>
Subject: BC-221 COLLECTORS?
Message-ID: <960124130641_103012.2130_GHU38-3@CompuServe.COM>

Group,

Anyone out there besides KA9EGW & myself actively collect BC-221's? Reply direct. I travel a fair amount and sometimes get too far behind to ever go through all the back digests.

Also, I'm missing several of the 27 or so models of BC-221's. Anyone cleaning

out the shack and coming across an unneeded BC-221, RA-133 or PP-79/UR (made for the BC-221-B & -Q), let me know. Be sure to include the suffix letter (i.e., "-B") in your note. Basket cases not necessarily rejected. Sometimes three or four basket cases make a new basket.

73, Robert Downs, WA5CAB
103012.2130@compuserve.com

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>
Subject: Re: BC-221 COLLECTORS?
Message-ID: <2C7CE06162@sbii.sb2.pdx.edu>

Hi Robert,

Well I have to confess to owning several freq meters.

Interestingly, I haven't electrically restored them and probably won't use one seriously.

My interest in the ones I have is that they were all of the most wonderful mechanical case designs. They are the variety which come in carrying cases with fold-down drawers for the calibration book and a rear battery compartment.

One has remarkable large polished silver pull knobs to extract the main unit from the case, etc. But the real prize is one in a wooden case with metal corner guards and leather straps. This thing is 3/4 the distance to being fine furniture. All of them were had a swap meets for \$5.00 to \$10.00!!!

Later,

=Randy=

Randy Zelick
Dept. Biology
Portland State University
P.O. Box 751
Portland, OR 97207
503-725-3086 (voice), 503-725-3864 (fax)

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996
From: jproc@worldlinux.com
Subject: RE: BC-221 COLLECTORS?
Message-ID: <Chameleon.4.01.2.960124094826.jproc@>

>Anyone out there besides KA9EGW & myself actively collect BC-221's?

Robert,

I have a BC221AH S/N1860 aboard Haida. Built an AC power supply for the unit and use it to calibrate some of the transmitters from time to time. The BC221M was carried by RCN ships in the 1950's and 60's.

Regards,

Jerry Proc, VE3FAB
Radio Restoration Volunteer
HMCS Haida
E-mail: jproc@worldlinx.com
Toronto, Ontario

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996
From: aevang@cris.com (alevangelista)
Subject: BC-221-D
Message-ID: <199601252215.RAA01747@franklin-fddi.cris.com>

Hi Gang - Did not want to 'bother' the group on such a "mundane" piece of hardware BUT... Seeing all the discussion on the BC-221..

I recently mined a cherry BC-221-D one out of the family garage this December. I also remember them to be hamfest "giveaways". Randy's observation about the boxes being works of art is well taken.

As a kid I made one into a dandy 30A battery charger and another into a mini prototype 'lab' complete with a small power supply and breadboard glued to the fold open door.

Cheers, Al Evangelista (KB8WYN) aevang@cris.com

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: KA9EGW@aol.com
Subject: BC221 et al--PLEASE READ
Message-ID: <960124090921_205468417@mail02.mail.aol.com>

Boy, did my comment generate a volume of e-mail! Many people wrote to tell me the BC221 makes a fine freq meter and it would NOT be right to part it out just for the choke. I agree wholeheartedly! I have several that get used as freq meters and one that makes a fb 160m vfo for my Viking. The latter is a NO-holes-drilled (not even internally), NO-butchery, 15-minute TOTALLY REVERSIBLE modification (no wires cut or spliced, even) that when undone leaves no traces inside or out (watch for the upcoming article in ER). That I took the extra time to figure how to make it TOTALLY reversible without compromising the unit's suitability as a freq meter in the process, I feel demonstrates my commitment to not butchering BA's.

However, there are (sadly) a number of already-butchered, already-cannibalized parts units out there (see 'em at every hamfest) missing major subassemblies, water/rodent-damaged, missing calibration books, previously butchered into un-reclaimability, etc and I feel no guilt about using pieces from these to restore other '221's or for any other use the pieces might be put to. If you need '221 parts for a project, ADVERTISE HERE, THAT'S WHAT THIS LIST IS FOR--someone on this list has the part(s) you need without butchering a functional, complete unit.

Further, Antique Electronic Supply has several small transformers suitable for single-plate-to-phones use, as well as regen kits containing suitable chokes.

73, Brian (not a butcher) KA9EGW

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996
From: Jake Hellbach <kk5hy@accesscom.net>
Subject: boatanchors offline?
Message-ID: <199601250422.WAA05966@uro.theporch.com>

I haven't gotten any messages from the boatanchors list, is it subscription only or off line.

please email directly.

thanks, Jake KK5HY

+++++

Email via: kk5hy@accesscom.net

Check out the Westside ARC Web page at:

<http://www.accesscom.net/~kk5hy>

Updated with boatanchor links

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From boatanchors@theporch.com Thu Jan 25 18:38:32 1996
From: Jay Coward <jayc@hpmsd2.sj.hp.com>
Subject: brass tubing

Message-ID: <9601252025.AA27718@hpmsd2.sj.hp.com>

Would the person who inquired about brass tubing to fit miniature banana plugs please send me your message again. Something blew up my E-mail box. Thanks and sorry for misuse of bandwidth.

73 Jay KE6PPF

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/ _ _	HEWLETT	John Jay Coward	39201 Cherry Street	MS NK10
/ / _/	PACKARD	jayc@hpmsd2.sj.hp.com	Newark, California	94560
/	Communications Components Division	510-505-5614	Fax 510-505-5560	

"I haven't heard anything like that since the orphanage burned down."
- Mark Twain on an opera performance

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996

From: berg stephen erik <z931086@corn.cso.niu.edu>

Subject: Clegg 99er

Message-ID: <Pine.3.89.9601241519.D12268-0100000@corn.cso.niu.edu>

Well, flushed with success over getting the Clegg Interceptor working right, here I am wanting to recapture one of the joys of my misspent youth. Does anyone here have a Clegg 99er in restorable shape they would care to sell to an old aficionado?

Please reply via private e-mail.

Tnx & 73,

Steve WA9JML

z931086@corn.cso.niu.edu

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996

From: Dean Davidson <ddavidso@metz.une.edu.au>

Subject: Command Sets

Message-ID: <199601242325.KAA17853@metz.une.edu.au>

I have just been given some Command set stuff belonging to the father of one of our staff members. I want to pay this fellow a fair price for the stuff so any suggestions as to value

would be appreciated.

Additionally, as I would like to get this stuff up and running, I would be interested if anyone has the receiver and transmitter racks, TX modulator/power supply, dyno for the rx, tuning handle for the RX etc, etc Obviously, Australian sources would be the best for me.

The gear:

T-18/ARC-5 Black - made by Aircraft Radio Corp 6-44 Serial 6705 CBY
Fair condition

BC-457-A Black - made by Western Electric Serial 7314
Good condition, except the tank coil has been removed and the antenna loading coil scale is cracked

BC-457-A Alumin - made by Western Electric Serial 96256
fair to poor condition, VT136 tubes missing but this one has a crystal on 4600. Antenna loading coil scale is cracked. Cover over VT136 missing, replaced by a black one. Many scratches and dents.

BC-453-B Alumin - Made by Western Electric Serial 50020
Excellent condition, this even has a RAAF servicable label on it dated 2 May 1949. Unfortunately the dyno is missing

It would appear that no mods have been done on them, but I haven't opened any of them up to see.

Many thanks in advance,
Dean

--

Dean Davidson
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Phone 61 67 73 2585
Fax 61 67 73 3820
VK2 ZID

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: Duncan Cadd <dcadd@luc.ac.be>
Subject: copy centre hell
Message-ID: <9601241628.AA05195@alpha.luc.ac.be>

Greetings, Anchorites, from a cold and darkening Diepenbeek in N.E. Belgium!

> to a "copy center" and they cut the damn thing open

Anathema on such Philistines as these. They shall spend eternity in a radio version of Hieronymus Bosch's musical hell, deafened by distorted

intermodulation products from 40m broadcast stations and unable to cut in sufficient attenuation to remove it, tormented by lids who hold USB nets over cw QSOs on the 80m QRP frequency and others who operate HF packet on 14.060, all of the DX beacons on 20m shall be completely inaudible because of digital QRM, they shall be plagued with untraceable parasitics, their transformers shall smoke, their capacitors pop, their resistors go open circuit without warning and their tubes develop heater-cathode shorts and exceed their rated plate dissipations with many frying noises and nasty smells. The only available replacements shall be Chinese and gassy. Their dynamotors shall be worked by handcrank, there shall be B+ on their key and on their phones, they shall work AM by a carbon mike in the plate lead of the final. And they shall sit on a grounded, steel, one-legged stool . . .

Bah!

Duncan ON9CHU / G0UTY G-QRP 8117 dcadd@luc.ac.be

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996
From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>
Subject: Displaying Antique Tubes
Message-ID: <Pine.3.89.9601251345.B27856-01000000@mesa5.mesa.colorado.edu>

Several years ago, Antique Electronic Supply sold hardwood bases on which old tubes could be placed for display purposes. I can't find them anymore in the AES catalog. Does anyone know of another source for these bases?

Thanks.

Jim Rybak W0KSD

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: Clark Fishman (FSAC) <cfishman@fsac3.pica.army.mil>
Subject: Drake 2A Schematic needed
Message-ID: <9601240804.aa16678@FSAC3.PICA.ARMY.MIL>

Yep that's it in a nutshell...anybody got a Drake 2A receiver schematic (other info also desirable)

glad to pay copying and mailing costs

73, Clark Fishman WA2UNN
PO Box 150

Andover, NJ 07821

cfishman@pica.army.mil

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996
From: "Kevin L. Anderson" <kla@helios.augustana.edu>
Subject: feeling like an appliance operator
Message-ID: <Pine.SUN.3.91.960125141610.13012A-100000@helios.augustana.edu>

Boatanchor Wisdom List,

A question from an off-again, on-again BA list member
that almost hinges on philosophical (certainly hinges
on embarrassing :-):

I still feel largely like an appliance operator, despite
being a user of certainly older appliances compared to
today's fangled boxes. By that I mean I have been lucky
to have a few BA radios that work and are not in need of
repair. But I feel the need to know more.

Should I, for instance, purposely purchase a radio, such
as a Heath HR-10B or something (which I would want to have
anyway, and is somewhat "modern" and has detailed manuals),
that is in need of repair and use that as a means to learn?
Literally rebuild as Hank does?

I don't know many local folks, thinking of the old elmering
approach.

How would you go about learning more and becoming more competent?

Cheers/73. Kevin Anderson, KB9IUA
kla@helios.augustana.edu
anderson@ncrsun1.ncr.usace.army.mil

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996
From: Sandy Blaize <70401.134@compuserve.com>
Subject: RE: Fleaspeak
Message-ID: <960123233123_70401.134_IHD144-1@CompuServe.COM>

One of my favorite "beefs" at a flea market is the guy who fondles the gear
for a long time. He usually has his dirty or raggedy khakis on. Your price

is say \$50 which is "fair" for the item. He offers \$25 and says he "Sure does want that...been looking for one for a long time.....I really can't afford \$50" Sometime he looks very sad and is on the verge of tears. He hangs around your table with that "hang dog" look. Finally, your heart softens and you give in. You settle on \$30, and now you don't feel so "guilty". A little later, W5ABC asked you if you had an XYZ for sale? "Yes, I did" you reply, "But I sold it a while ago!". Then W5ABC says, "Well there is one at table 15 across the market for sale for \$60!" Curious, you have W5ABC watch your table and you go to table 15. Right there is your ex-XYZ and the guy that almost cried who bought it from you, happy as a full puppy! Your face reddens! "Damn, I been 'conned'!" you mutter.

My standard line now, when I get the "poor me" routine: "Maybe, come back about 15 minutes before the end of the hamfest. If I still got it, maybe we'll consider it, other wise forget it!" OR....."Before I sell it for your that, it will go in the dumpster!" 99.9% of the time, the "act" fades and they go away!

Sound famailiar?

73,

Sandy W5TVW

~~~~~  
Boat Anchors collected, restored, traded and used!

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: Chuck Penson <penon@sci.mus.mn.us>  
Subject: Re: Fleaspeak  
Message-ID: <31064710.3846@sci.mus.mn.us>

Sandy Blaize wrote:

>

> One of my favorite "beefs" <snip>

I shouldn't admit this to the group but I have very poor haggeling skills. I usually start with an offer of half the asking price because I have learned that \*very often\* the seller will say "yes." If this fails, however, I don't usually agrue further. If I really want the piece I'll give the guy what he wants--assuming the price is what I consider realistic. Otherwise I say "OK, thanks" and walk away.

> My standard line now, when I get the "poor me" routine: "Maybe, come back  
> about 15 minutes before the end of the hamfest. If I still got it, maybe we'll

> consider it, other wise forget it!"

Yes. This is an excellent strategy. Have used it many times myself.

--

Chuck Penson  
Education Division  
Science Museum of Minnesota

penson@sci.mus.mn.us  
612.221.4510 voice  
612.224.5092 fax

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Farady

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: billo@nti.net (Bill Wilson)  
Subject: fleaspeak  
Message-ID: <19960124153549340.AAA223@LOCALNAME>

Mike Sanders wrote:

>A young fella called me a few months ago and wanted to know if I would  
>check out a transceiver for him he just bought at "the hamfest". It was his  
>first hf rig and the guy said he could work the world with it. I don't know  
>what he paid for the HQ170 but I turned him down thinking it would be kinda  
>tough to get it to transmit "full output".

Back in 1975 when I was in the seventh grade I bought my first  
boatanchor from a guy at school. His description was alot like what was in  
Mikes post. The description went like this if memory serves,"I have a REAL  
ham radio for  
sale. You can TALK all over the world, the radio looks good and smells good".

I got my dad to go get it, the price was \$35.00. Several months went by.  
I was studying for the novice ticket and doing a bunch of listening to hams and  
swl'ing. I began to wonder where the "mic" plug was on the Hallicrafers  
SX-110. Finally one day a friend came over and carefully told me that what I  
had was only a receiver and I needed to get a transmitter to match it.  
Later that next year I got my ticket and with the help of dad bought the  
Maurader (which I still use) and the Mohawk combo. (the price, which I  
remember well was \$150.00).

So Mike, go over to that "young fella" qth and set him straight!

On the subject of hamfests. I too have been on both sides of the table.

When I sell boatanchors I try to get a table where I can run a extension cord to it and set up a little tuner/dummy load combo so the buyer can see it transmit/receive. When buying I've heard this line, "well son, the radio used to belong to a guy who used it every once in awhile but it did have full output and you must remember that THIS one is rare". Yeah, right. I get most of my boatanchors word of mouth and usually pass on most rigs at the fests for one reason or another. But every now and then you can getted tripped up. Last summer at the Atlanta fest I bought a "Mint" (an overused word, most "mint" rigs I see had a fire at the mint that day!) Hammarlund transmitter. The seller said that it was not his rig but "got it in a trade". I got it, the price was right, got it home and took it out of the case. Below the chassis was the real story, chopped wires, missing components and mods. Now if I took the time to bring a small set of tools to slip it out of the case like Kim Herron does I would have not bought it. You certainly can't judge a hamfest boatanchhor by its case (cover). The Hammarlund transmitter was traded off (with an understanding of it's condition) as a display piece and I got back what I had in it.

Happy hunting,

Bill  
AC4LC

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: "Frank Reid" <reid@indiana.edu>  
Subject: RE: Fleaspeak  
Message-ID: <40825.reid@ucs.indiana.edu>

In message Wed, 24 Jan 96 09:38:51, <70401.134@compuserve.com> writes:

> One of my favorite "beefs" at a flea market is the guy who fondles the  
> gear for a long time. He usually has his dirty or raggedy khakis on.  
> Your price is say \$50 which is "fair" for the item. He offers \$25 and  
> says he "Sure does want that...been looking for one for a long time.....I  
> really can't afford \$50" Sometime he looks very sad and is on the verge  
> of tears. He hangs around your table with that "hang dog" look.  
> Finally, your heart softens and you give in. You settle on \$30, and now  
> you don't feel so "guilty". A little later, W5ABC asked you if you had  
> an XYZ for sale? "Yes, I did" you reply, "But I sold it a while ago!".  
> Then W5ABC says, "Well there is one at table 15 across the market for  
> sale for \$60!" Curious, you have W5ABC watch your table and you go to  
> table 15. Right there is your ex-XYZ and the guy that almost cried who  
> bought it from you, happy as a full puppy! Your face reddens! "Damn, I

> been 'conned'!" you mutter....

Even worse is when you sell something that doesn't work, for an appropriately low price, then find it at someone else's table at high markup. My pet name for people who do that is "Gypsonian institutions."

Sometimes it's best to keep your best (and worst) stuff hidden until the flea market officially opens.

"I don't know if it works" = it doesn't.

"Cholesterol free" = they don't charge extra for it.

"All natural ingredients" = contains no plutonium.

--

Frank       reid@indiana.edu       W9MKV

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996

From: Terry Burge <terrybu@netman.ENS.TEK.COM>

Subject: Re: Fleaspeak

Message-ID: <9601241635.AA16985@netman.ENS.TEK.COM>

Sandy's experience with the 'poor me' character sure does sound familiar. I had a Henry 2-KD5 amplifier that I decided I needed the money from more than the rig so I took it to Rickreal Ham Fest a few years back. First thing I did was put a fairly reasonable price on it and this guy came by and talked me down a little and took it early in the meet. After 3 hours or so I took a walk around and sure enough, there was my amp with a price about \$150 more than what I sold it for...I think something like \$825 or so. Since I got my money out of it I don't feel like I got taken but it did give me an odd feeling just the same.

Then there was the guy who kept telling me to put a price on my stranded aircraft cable for guying a tower and when I finally did after telling him to make an offer he acted real offended. Kept coming back by telling me I wanted too much. Finally I decided to put my price back up to where I thought it was reasonable and if no one bought the cables they would go back home with me. They did too.

But the thing that really tickles me about hamfest is you never know what will sell. It just goes to prove one persons junk is another persons treasure. Take that Collins mechanical filter...made somebody happy. Hamfest are alot of fun to bring your 'junk' to and enjoy the people.

Terry  
KI7M

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: Andy Howard WA4KCY <102452.362@compuserve.com>  
Subject: Re: Fleaspeak  
Message-ID: <960124195103\_102452.362\_DHT75-1@CompuServe.COM>

Hi fellow BA folks,

I have read with interest some of the thoughts from BA folks about negotiating skills or the lack of them in most cases. I like the one where Chuck Penson said "That is a good one, I have used it myself".

As one who spent 15 years in the automobile business first as a salesman and then as a sales manager who taught others to sell and negotiate I cannot stress enough the importance of negotiating skills in all aspects of everyday life. Most people are not aware that you can haggle on most anything that you buy with the exception of groceries once you get in the checkout line. I haggle on clothes especially. There is about a 400 percent markup in the average suit. Shoes can be negotiated. Furniture is another one of the notoriously marked-up items. If the salesperson refuses to bargain ask to see the manager.

Selling and negotiating skills are learned. People are not born with them. Most country folk barter and haggle (or horsetrade as it is called) on most everything they buy. It is a way of life that they were taught by their parents before them. They are the most difficult to sell an automobile. If you sell them anything at all it is not likely that you will make any profit.

Most people think that there is an enormous markup in cars. This is not so with a new car. Used cars are marked up substantially but not new ones. I have seen \$20,000 cars that if you discounted it a thousand dollars you would lose money.

Which brings me back to the original issue. Haggling at hamfests is a lot of fun especially for me with my background. I also enjoy selling to other hams. One thing that I learned long ago is never tell a lie about something that you are selling. It will come back to haunt you for sure. My steadfast rule for salespeople who worked for me was if I catch you telling a lie to a customer you need to get a ride with him when he leaves the dealership. One thing that gets a seller's attention is money. It is called bait in the car business. Customers will come into the lot with their title in their pocket so the salesperson can see it. When haggling over a piece of equipment at a hamfest pull out some money a count through it. Nothing gets a persons attention like that good old green money. If you are selling always price it high enough so as to be able to come down a bit. Remember, a buyer has to win in order to be happy with the purchase. I have seen a lot of sales missed because of the inability to reduce the price.

You can come down but you can't go up.

Just some thoughts,

Andy, WA4KCY  
AMI #9

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: berg stephen erik <z931086@corn.cso.niu.edu>  
Subject: Re: Fleaspeak  
Message-ID: <Pine.3.89.9601241425.B12268-01000000@corn.cso.niu.edu>

I once, back in the 1960's, bought a reconditioned Gonset G-76 from a prominent ham radio vendor. It arrived in a very nice box, with the panel meter smashed in. The box was intact, so I have to assume that the radio was in that sorry state from the store. I repaired the meter with epoxy, and hooked up the radio to my homebrewed power supply. On power up, the line fuse blew up. I suspected my own work, so I brought the radio up to a friend's shack, and put it on his factory supply. It blew the fuse there too. Seems that there was a small matter of a direct short circuit in the B+ line. I remedied that, and the radio proceeded to give me excellent service. I still pull it off the shelf now and then to check it out. I think that it is the oldest surviving member of my collection now. One needs to know that caveat emptor applies to stores, and not just flea markets and ham fests. Most of the stuff I bought at hamfests has worked.

73,

Steve WA9JML

z931086@corn.cso.niu.edu

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: jmartin@hrlban1.aircrew.asu.edu  
Subject: Fleaspeak, continued...  
Message-ID: <SA39+YDc,la@hrlban10.alhra.af.mil>

Sandy B. wrote:

. Right there is your ex-XYZ and the guy that almost cried who bought it from you, happy as a full puppy! Your face reddens! "Damn, I been 'conned'!" you mutter.

=====

A similar situation happened to me. I had a 1929 RCA R-44 BC set for sale at

a radio fleamarket, a man (in grubby khaki, as Sandy described) looked at and admired it, and finally offered \$40 against my price of \$75. We talked and dickered, and then he told me he couldn't afford more than \$40, as that's all he had. No one else had made an offer, and keeping in mind that 'a bird in the hand is worth two in the bush,' I had sympathy and accepted his \$40 offer. Out came his pocketbook, and he pulled out two twenties from a thick stack of fifties and hundreds. I muttered something about his saying \$40 was all he had, and he snapped back at me that \$40 was all he had for THIS set, and a deal's a deal! He grabbed the radio and was gone. I hope the pot metal in that set warps and crumbles quickly. As a result of this event I've sort of come to the conclusion that an offer within 20% of my asking price means the potential buyer has money and is dickering just on the principle of it (which is OK in my book, and part of the fun of swap meets), and often I will accept it or we'll come to an agreement somewhere in the middle. Any lower offer arouses my suspicion and always gets a "come back at the end of the meet, and we'll talk if you're still interested and it's still here" response from me now, friendly but firm. It effectively weeds out certain types. My two cents worth, and that's probably all it's worth....

73, John Martin

jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996

From: MIKE SANDERS <ks0f@basic.net>

Subject: Fleaspeak-selling

Message-ID: <199601250140.TAA18223@basic.net>

Greetings,

In my box of hamfest sell stuff I usually have a batch of business cards. My name and phone number on them. I think the 1k cost me 9.95 at Office Depot. If someone buys something of consequence most often I remember to give them one of these cards. Calms the buyer and gives him a chance to at least find me. If you don't know what it is I won't sell it to you.

Got bit just this past year. A local AMer BA type kept circling the nice little HQ110A I had. If memory serves it was marked 100. Well after moan groan sob etc I want it for my young daughters first station it went for 50 bux. I saw it on his table two hamfests later marked 125. Thank you very much. Now you know when his big rig goes belly up and I'm the only one on the planet with the component that will save the day hes still outta luck. What goes around may bite you in the butt. In this age of instant information people still outsmart themselves everyday.

G'day KS0F 73 ZUT

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996

Subject: FS:\ Johnson Ranger.....

i may also be able to get a copy of the manual. this is the later version

(with the 6AL5 and 12AU6 (?)) on the top nr the off, phone ect... sw.

i do alot of travelling, so i may be able to deliver, esp. if youre on eastern seaboard-

--

"i dont care anymore"

"mai-pen-rai"

----- Forwarded message ends here -----

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: afpgreg@state.me.us (Paul V. Gregory)  
Subject: FWD: EPA Library  
Message-ID: <199601251328.IAA19113@gatekeeper.ddp.state.me.us>

Ahoy,

Here's a tidbit that appeared yesterday over the wire. It's from the U.S.EPA library which provides reader service to folks interested in environmental issues.

In case folks don't know, the Westinghouse is THE most prestigious high school science award:

> OPPT NEWSBREAK                      Wednesday, 24 January 1996  
>              Today's "Toxic News for the 'Net" brought to you by the OPPT  
>              Library

>                                      INTER ALIA

"Stars in Eyes Turn Into Science in the Blood, the Westinghouse Awards Show." New York Times, 24 January, B7. "Finalists in Westinghouse High School Science Contest." New York Times, 24 January, B7.

The Westinghouse Science Talent Search, a national competition which seeks out talented high school science students, announced its finalists. Projects submitted

included a 40-foot diameter radio telescope at a national observatory hooked to a World War II short wave radio to scan the Milky Way to locate clouds of neutral hydrogen and calculate the galaxy's rotation curve, supporting the student's theory of a spiral galactic structure. The science community monitors the Westinghouse competition closely because it is considered a good barometer of future achievement, including the Nobel Prize.

de KB1A0C sk

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Fwd: FS:\ Johnson Ranger.....  
Message-ID: <77177.ddillman@igc.apc.org>

\*NOTE\* The messahe below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----  
From: mike dibella <mdibella@bu.edu >  
Newsgroups: usenet.rec.radio.swap  
From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: haynes@cats.ucsc.edu (Jim Haynes)  
Subject: Get ready for Green Key Night (& Day), Feb 20  
Message-ID: <199601251931.LAA09833@angus.UCSC.EDU>

Once again this Feb 20 join us in celebrating the beginning of amateur FSK HF RTTY back in 1953 by getting on the air. Not a contest, no rules and no scoring, but guidelines are  
    use a mechanical teleprinter if you can  
    use vacuum tube gear if you can  
    use 850 shift if you can  
    have fun  
    wallow in nostalgia

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: "Allan Fritsche" <fritsche@msn.com>  
Subject: Grill cloth color for the R-46  
Message-ID: <UPMAIL03.199601240258500300@msn.com>

Was the original color for the cloth like material inside the Halli R-46, white or Silver or what. Anybody know.  
fritsche@msn.com

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: Sandy Blaize <70401.134@compuserve.com>  
Subject: Hammarlund Signal Slicers A or B  
Message-ID: <960123233125\_70401.134\_IHD144-2@CompuServe.COM>

By the way: the Central Electronics Model "A" or "B" slicers will easily realign to 500 khz. so they can be used with R-388 or 51J series receivers!

73,  
Sandy W5TVW

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: Nick England <nick@cs.unc.edu>  
Subject: Heath LMO instability ?  
Message-ID: <199601251450.JAA21658@altair.cs.unc.edu>

I friend has what he describes as instability resulting in "wobble" when he tunes his Heath SB-102 xcvr. He's adjusted the tuning mechanism and fears it may be some mechanical problem within the LMO. Has anyone had a similar problem and good advice to offer ? I'm not much help on this one as I'm still working my way through the 50's Heathkits before I start digging into the SB series.

thanks,  
Nick KD4CPL  
nick@cs.unc.edu

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "Grant Youngman" <nq5t@gte.net>  
Subject: Re: Heath LMO instability ?  
Message-ID: <199601251642.KAA26984@uro.theporch.com>

>  
> I friend has what he describes as instability resulting in "wobble" when  
> he tunes his Heath SB-102 xcvr.

Back in the early 70's when I built my SB-102, I had this problem with two LMOs. Both were manufactured by TRW.

Since Heath was replacing them gratis at the time, I never tore into one to attempt to i.d. the source of the problem. I think someone on the

list once mentioned the possiblilty of a faulty ground connection associated with the tuning capacitor -- so it may be possible to open the thing up and renovate it.

Grant/NQ5T

nq5t@gte.net <<== new address

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: Chuck Penson <penon@sci.mus.mn.us>  
Subject: Re: Heath LMO instability ?  
Message-ID: <3107B6B4.3DD7@sci.mus.mn.us>

Nick England wrote:

>

> I friend has what he describes as instability resulting in "wobble" when  
> he tunes his Heath SB-102 xcvr. He's adjusted the tuning mechanism and  
> fears it may be some mechanical problem within the LMO.

My 102 exhibits the same wobble, but only until it warms up (20 mins or so). It is not a big problem--yet, anyway. I have always assumed the problem was that the grease on the bearings is getting thin and/or stiff.

I have heard some people complain about some kind of "slip ring" contact inside the LMO, and that it can get dirty and result in that kind of symptom. Maybe some others in the group can shed some light on that.

--

Chuck Penson  
Education Division  
Science Museum of Minnesota

penon@sci.mus.mn.us  
612.221.4510 voice  
612.224.5092 fax

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Farady

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "Greg Anders" <anders@autopsy.corp.sgi.com>  
Subject: Re: Heath LMO instability ?

Message-ID: <9601250909.ZM17673@autopsy.corp.sgi.com>

My SB401 and 301 have experienced the same symptoms and I've received the following tips for troubleshooting.

1. The rotor ground clip can be intermittent and should be cleaned to insure a constant ground.
2. The reduction drive and/or capacitor bearing may be stiff and need cleaning and relubrication.
3. The drive gear may be worn (good luck finding a replacement).

In addition, on my SB301 I found that the drive pulley which rides on the steel track on the dial was bent slightly making the pulley gap inconsistent on one side. I removed the pulley, disassembled it and carefully attempted to "re-bend" the pulley with needle nosed pliers to make the gap more consistent throughout its circumference....

I'm sure there are others on the list who have experienced this problem with Heath LMOs so you will probably get a lot of help.

Good troubleshooting!

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Hindenburg Tape  
Message-ID: <64926.ddillman@igc.apc.org>

One of our BA colleagues asked if a video tape of the program on the Hindenburg is available. Unfortunately, I seem to have lost his message but the tape can be ordered by calling 800-423-1212.

For those who may have missed my original post, the program showed many shots of both Japanese and American BAs including several of RBA/RBB/RBCs in use in intercept rooms.

As both a BA \*and\* an airship enthusiast, the program was heaven for me!

Dick Dillman  
WPE2VT N6VS ex-WA2BJK

<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: post@ouvaxa.cats.ohiou.edu  
Subject: HQ-110 etc Nelsonville HamFest  
Message-ID: <0099CE8D.677A14E6.223@ouvaxa.cats.ohiou.edu>

Ohio University Electronic Communication

Date: 24-Jan-1996 12:56pm EST

To: Remote Addressee ( \_MX%"boatanchors@theporch.com" )

From: Richard Post  
Services  
POST

Dept: Instructional Media  
Tel No:

Subject: HQ-110 etc Nelsonville HamFest

Boat people,

The Nelsonville, Ohio hamfest had its second annual last Saturday, a nice small mostly-local hamfest. A good Hammarlund HQ-110C (clock) jumped off the table into my lap. The plastic cover on the working clock is missing. A couple of Hallis S-38C and S-20R in fair cosmetics also gave me that "need-a-good-home" pound-puppy look. I didn't dicker on any of these as the asking prices were in the ridiculous offer accepted range.

A Halli SX-62 in good or better cosmetics started at \$150 sold for \$100. A Knight receiver (even the owner didn't know the model number) was unsold at \$50 when I left, had what looked like an unoriginal switch on the front and some rust on the back. Also found a nice McMurdo Silver signal generator for \$10. Have always been interested in McMurdo Silver stuff but except for the test equipment, cannot afford most of it.

After a little bit of work the S-38C plays well. The HQ-110 also works until about a half-hour warmup and then replaces the signal suddenly with frying noise. I usually find this symptom to be caused by a leaky capacitor internal to the IF (often just dirt on the mica that can be cleaned off) but will track it down with the sig tracer. The QST review in August '58 is disappointing as it does not show the usual signal path

diagram. One of the ads said that the double conversion only kicks in at 7 Mc's or higher. Any caveats and gotchas on this set? Anybody got a schematic or manual copy for the usual copy and mailing costs or a trade for one of my manuals?

Keep the fire in the vacuum.

73 de Rich KB8TAD <post@ouvaxa.cats.ohiou.edu>

Received: 25-Jan-1996 09:10am

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "E.Swain/T.Boyd" <lizboy@io.com>  
Subject: HR-10B, HT-32A  
Message-ID: <Pine.BSI.3.91.960124210014.11945B-1000000@xanadu.io.com>

First attempt at a post to this list, from a dues-paying until-now-lurker. Will probably always have a lot more questions than answers.

I have the remains of a Heathkit HR-10B, I guess it should be classified as boatanchor lite. Anyway, the front panel and glass are just about mint. Available for \$10 postpaid.

I also have an HR-32A, a \*real\* boatanchor. It's complete including all tubes except for one of the 6146s. Mechanically, it seems to be good. I've never plugged it in to see what it does. Don't plan to, either, not without experienced assistance, anyway. (I'm not licensed, I am more into antique radios, but love old tube-type receivers). Physically it is not banged, dented, bent or busted. The flat black paint is peeling -- maybe this can be re-done. The condition of the chassis underneath looks real good. At least there's no sign of burned or fried parts, for whatever that's worth.

Too heavy to ship. Anyone in central Texas want this for \$35?

Tom Boyd  
(Dues-paying lurker)  
lizboy@io.com

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: "Terry O'Laughlin, RM:7135, #:6-6667" <OLAUGHLIN@vilas.uwex.edu>  
Subject: Re: Jack's comment  
Message-ID: <MAILQUEUE-101.960124151011.704@vilas.uwex.edu>

> GEEZZ! Hams are the \*CHEAPEST\* bunch of people I have ever encountered

> if three cents a day is gonna make a difference to someone's  
> lifestyle!

After years of Hamfesting, I am inclined to agree. At every hamfest there are always some jokers who pick up something out of my FREE box and require an extended sales pitch before they will take it. That is ridiculous.

There are no gum wrappers, 8" diskette drives, or derelict TV chassis in my free box. Last fest I had two guys yammering away at me over three free Jerrold VHF CATV amps. The tubes alone in these amps were worth hauling the unit away. One guy chewed my ear off over some laboratory timers in the free box. I don't like being rude to anyone, but, as Jack said, "enough is enough."

My check is in the mail. I don't expect anyone to lose money so that I can enjoy Boatanchors.

Terry O'Laughlin      WB9GVB

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: "Christopher A. Bowne" <radiobwn@q.continuum.net>  
Subject: Jeep Mobile TCS  
Message-ID: <199601240649.BAA11350@q.continuum.net>

On Jan 23rd, Ray Mote wrote:

"I recall being surprised to find a second manual with the TCS I ordered, describing the AN/MRC-5C and AN/MRC-6C. I forget which was which, but one of them was nothing more than a TCS mounted in a Jeep. (The other was one of the xtal-controlled FM jobs, using the BC-603/604 or BC-683/684 combo.)"

I have heard of the Jeep TCS application, as a shore to ship comm link for Marine landing parties. Would be interested in hearing more about it, specifically, what was the antenna arrangement, how the unit was mounted in the jeep, and how did they keep water/dirt/etc. out of the louvered cabinets?

The TCS has always impressed me as an elegant design, executed with typical Collins quality of components, and craftsmanship. My TCS-12 set has about the most stable and T9X quality CW keying of any WW2 era set in my collection. It is my vintage military rig of choice for CW operation.

Was the TCS the primary radio in PT boats, or was it a backup to something larger, such as a TCM? What was its role on other ships? Was it ever used as a field set or in a shore station

with the AC power supply? What was its period of use?  
I have talked with many ex-Navy radiomen who remembered them still  
in use in the 60s on some ships.

Would be interested in purchase or loan of the TCS MRC TM for repro.

73,

Chris Bowne, AJ1G  
Stonington, CT  
radiobwn@q.continuum.net  
AMI No. 211

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "Jack Giehl" <JACKG@s1.xetron.com>  
Subject: Johnson Valiant goes Zzzzzt  
Message-ID: <83585095146@s1.xetron.com>

Dear BA Enthusiasts,

Tuesday night, while I was in a 160 meter AM QSO with the Valiant,  
I hit the PTT switch and heard zzzzzzzzttt accompanied by the fuse  
blowing. Hate when that happens....

Last night I worked on it. I disconnected the primary and secondary,  
and put a 100 watt light bulb in series with the primary, and it lit to full  
brilliance.

I removed the transformer from the chassis. One secondary  
lead to the center tap read 50 ohms, the other 2 ohms. I removed the  
end bells, and cut some of the supporting paper to check for shorts.

I checked the resistance again, and now it is ok. I also applied 120  
volts repeatedly to primary, and it still is ok. I haven't found any  
evidence of a burn spot yet. The transformer had a slight odor when  
I first removed it.

I plan to work on it more tonight. I need to find where the short / arc  
occurred. Any suggestions? Anyone have a junker Valiant plate  
transformer available, in case this one is not salvageable?

Jack

73,

=====

Jack, WB8BFS  
jackg@xetron.com Loveland, Ohio (near Cincinnati)

=====

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: USSAILIS@forum.phast.umass.edu  
Subject: Long life tubes  
Message-ID: <01I0EMISSF3M8WW1A3@oitvms.oit.umass.edu>

I nominate the 0B2 for the most long lived tube. The filament never went bad.

Jim, W1EQ0 :)

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "Cal J. Eustaquio" <ceustaqu@violin.aix.calpoly.edu>  
Subject: Re: Long life tubes  
Message-ID: <Pine.A32.3.91.960125123829.90916A-100000@violin.aix.calpoly.edu>

Ha ha!

On Thu, 25 Jan 1996 USSAILIS@forum.phast.umass.edu wrote:

> I nominate the 0B2 for the most long lived tube. The filament never went bad.  
>  
> Jim, W1EQ0 :)  
>

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: john <johnmb@nando.net>  
Subject: Long life tubes  
Message-ID: <9601252329.AA01437@merlin.nando.net>

...speaking of which... anyone take a dead "lifetime Guarantee"  
tube back to Radio Shack recently?  
/john

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: "Allan Fritsche" <fritsche@msn.com>  
Subject: Manual for a SX-101 Mk3  
Message-ID: <UPMAIL03.199601240137020746@msn.com>

Sandy, Young Lady, I didn't feel like filtering back thru a zillion messages to find your email ID. Yes I would be your servant for life if you would make me a copy of the SX-101 Mk3 manual, I've got a SX-101A manual but a couple of

tubes or different. I am now finished with the cleanup and painting of the unit and am ready to align. If you can copy for me, I will send you 5 bucks americano. That should cover it. Thanks in advance.\

Send me your email and mailing address for the money.

Thanks  
fritsche@msn.com

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: garland@MPS.OHIO-STATE.EDU (James C. Garland)  
Subject: More "fleaspeak"  
Message-ID: <01I0FCZRK1P68WXQIQ@MPS.OHIO-STATE.EDU>

Respectfully submitted, in the never-ending quest for flea market honesty:

"You'd better buy it now, because I'm leaving soon." (Translation: The previous buyer and his brother, Guido, are heading back toward the table and they aren't smiling.)

"It came from an estate sale." (Translation: If you have any problem take it up with the owner.)

"I had it on the air just last night." (Translation: And you thought the "woodpecker" was gone.)

"I only use it for ragchewing with friends." (Translation: He was the guy on 3898 whispering "Rod....neey" into the microphone for two hours.)

"I just had it serviced." (Translation: his kid brother opened the lid and sprayed WD-40 over all the wiring.)

"It comes with the original box." (Translation: Just brush out the kitty litter and hold your nose when you open it.)

"Better buy it now, cause it won't last." (Translation: none needed.)

--Jim W8ZR

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: "ROBERT W DOWNS, WA5CAB" <103012.2130@compuserve.com>  
Subject: RE: Newsgroups BA 438  
Message-ID: <960123053245\_103012.2130\_GHU27-1@CompuServe.COM>

I probably ought to read a few more digests before chiming in and getting hit in the face with Purple-K again, but he only needs another \$13.00.

Robert Downs, WA5CAB  
103012.2130@compuserve.com

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: Cainjim@aol.com  
Subject: One more time  
Message-ID: <9601242022.aa15705@jackatak.theporch.com>

Let's try again (why won't this primo stuff move?)  
-----

Package: Drake 2NT, Hallicrafters HA-1 keyer and HA-5 vfo, \$225 including shipping. All clean, complete, working, with (photocopied) manuals and custom hook-up cables. Jim Cain, K1TN, reply direct to <cainjim@aol.com>  
  
-----

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: Chuck Penson <penon@sci.mus.mn.us>  
Subject: Re: Packing BA's: bubble wrap  
Message-ID: <3107D959.107E@sci.mus.mn.us>

"L. Mark Pilant - MS": "ZK03-4/Y02 DTN:381-1529" wrote:  
>  
> Another source for rigid foam packing is your local home improvement center.  
<snip>

I've got to believe that a good wrapping with bubble wrap would provide better protection.

I shipped a Shawnee recently via "Mailboxes, Etc" (one of these stores that will ship anything for you) and they used bubble wrap and styrofoam peanuts, double boxed. My thinking is that if they need to protect themselves from a lot of damage claims they must have figured out what works best.

--

Chuck Penson  
Education Division  
Science Museum of Minnesota

person@sci.mus.mn.us  
612.221.4510 voice  
612.224.5092 fax

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Farady

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "Ray L. Mote" <rmote@rain.org>  
Subject: Packing BA's: polystyrene foam source  
Message-ID: <Pine.SUN.3.91.960125073422.7334A-1000000@coyote.rain.org>

When I packed/shipped an R-389 for a neighbor, he provided 1-inch thick sheets of polystyrene foam which proved to be a very useful material for this. Scanning the McMaster-Carr catalog, I found that they offer the stuff. Stocked as their catalog number 9335K1 (1-inch thick sheets 24x48 inches), their price as of yesterday was \$2.43 per sheet (1-19 sheets), \$1.89 per sheet (20+ sheets). Yes, I ordered some! They also have sheets in 1.5-inch thickness (9335K2), same size, but I didn't ask the price. McMaster Carr, P.O. Box 54960, Los Angeles, CA 90054-0960 or phone (310) 692-5911. [Not an employee, just a satisfied customer]

73.....Ray Mote, W6RIC <rmote@rain.org>

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: bill@texan.frco.com (William Hawkins)  
Subject: Re: Packing BA's: polystyrene foam source  
Message-ID: <9601251709.AA18120@texan.frco.com>

Speaking of the R389, anybody got a parts set with a PT0,  
or just the PT0? Doesn't have to work. Worth big bucks.

Bill Hawkins bill@bvc.frco.com 612 895-2085 Minneapolis, MN USA

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "L. Mark Pilant - MS": "ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.ENET.dec.com>  
Subject: RE: Packing BA's: polystyrene foam source  
Message-ID: <9601251723.AA11316@us2rmc.zko.dec.com>

Another source for rigid foam packing is your local home improvement center.

(Home Depot, Home Quarters, etc.)

Just ask for rigid foam insulation. There are several kinds, but the cheapest is good ol' polystyrene foam. It usually comes in 48" x 96" and 24" x 96" sheets. There are usually several thicknesses available.

I can't remember the exact price (since the stuff I used was left over from a home construction project), but I seem to remember it wasn't more than \$5.00 or \$6.00 for a 48" x 96" sheet. But don't hold me to it...the memory is going :-)

73

- Mark N1VQW

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: Jay Wicklund <jwicklund@halcyon.com>  
Subject: RE: Packing BA's: polystyrene foam source  
Message-ID: <Chameleon.960125092159.jwicklund@mycroftxxx.halcyon.com>

-----Included Message-----

When I packed/shipped an R-389 for a neighbor, he provided 1-inch thick sheets of polystyrene foam which proved to be a very useful material for this.

---snip

You can get 1 and 2 inch polystyrene boards from any lumber yard. Its used as building insulation and makes very good material for packing heavy Boatanchors. You can also combine it with some foam peanuts for both firm and soft support.

73 de KI7RH

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: "ROBERT W DOWNS, WA5CAB" <103012.2130@compuserve.com>  
Subject: PE-73 WANTED  
Message-ID: <960124130633\_103012.2130\_GHU38-1@CompuServe.COM>

Group,

Anyone got an extra PE-73 in good working order? John Freeman was by here for an eyeball QSO last week and wants one. All I have are BD-77's. John's traveling for the next several weeks so pass to me & I'll pass to him next time

he calls.

73, Robert Downs, WA5CAB  
103012.2130@compuserve.com

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: "Emil Switzer" <switzer\_e@a1.clust.CLUST.umc@engult.lxe.com>  
Subject: phasatron  
Message-ID: <61445142106991/86934@CLUST>

To: boatanchors

----- Forwarded message

Posted: Tue, 23 Jan 96 11:39:01 -0500  
From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: "Homer Blincoe"  
<"blincoe\_h%Organization=ELEC\_SYST\_ENGR%Telephone=4211"@a1.clust>  
Subject: Phasatron

Anyone remember the "Phasatron"? GE used it their FM broadcast transmitters in the 1940s. It was tube with some circular elements in it that a beam of electrons swept over. Around the tube there was a 3 phase winding like that of an induction motor, that the audio was fed into. The audio had to be converted from the single phase coming from the microphones to 3 phase with proper bandwidth. The output of a 200kHz (approximately) crystal oscillator with oven control was connected to the control grid of the tube.

The result was a phase modulated 200kHz sine wave passing through from the crystal oscillator to a chain of multiplier stages whose output ended up in the 88 to 108 MHz FM band. The deviation was increased by the chain to the proper magnitude too, of course.

Do not know why GE used such a cumberson way of phase modulation. Wonder if they were trying to avoid a patent. Of course there was a network to convert the phase modulation into FM over the audio range. The FCC rules at the time allowed 500Hz plus or minus of the assigned frequency which required the oscillator to be plus or minus about 1Hz....even with an optimum cut and a constant temp ours had to be reset about once a month.

----- End of Forwarded message

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: Conard Murray <cfm@tntech.edu>  
Subject: Photos available via FTP  
Message-ID: <01I0E7C085B69QZ069@tntech.edu>

-- [ From: Conard Murray \* EMC.Ver #2.5.02 ] --

Hello all,  
Just wanted to announce that 22 high-quality photos taken by our own NA4G, Bob, of his masterpiece Glowbug etherwarmers are now available at the site triode.cc.tntech.edu in the pub/photos directory. The photos are na4g01 thru na4g22 in both the .gif and .jpg format and there is an index file in the photos directory to tell you what is what. Feel free to log on and look around and take whatever you want. If you have any photos or schematics you would like to contribute feel free to do so.... just leave them in the incoming directory.  
Please use your e-mail address or your call as the password. Drop by soon and let Bob know what you think.....and also join us on 1803 Kc/s in the late evening hours for a chat. If you phone guys don't want to use cw, drop me a note and we will work out something.  
73 all and ZUT!  
Conard, ws4s  
cfm@tntech.edu

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: Al Klase <alklase@village.ios.com>  
Subject: Re: R-390A sens problem  
Message-ID: <Pine.BSD.3.91.960124102647.13652A-1000000@village.ios.com>

Before you go crazy aligning this RX, make sure you have a good input RF transformer T201. Primaries are sometimes open due to lightning etc. I had one with a primary to secondary short.

If te primary is OK you can see it with an ohm meter across the antenna jack. If the seconday is OK it will peak when you adjust the slug. Otherwise, examine T201 (broadcast band). It can be removed by pulling the slug rack and removing the phillips screw from the bottom of the coil form. Just unplugs from the RF deck.

My two cents,  
Al- N3FRQ

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: "ROBERT W DOWNS, WA5CAB" <103012.2130@compuserve.com>

Subject: Re: RA-74-C/D BA 438

Message-ID: <960123053250\_103012.2130\_GHU27-2@CompuServe.COM>

KF4FJH and the group,

The RA-74-B and -C use 5Z3 and 80 rectifiers for the B+ and bias supplies, and have two 4-section rectangular filter capacitors. The RA-74-D uses 5U4G and 5Y3GT rectifiers and has 12 individual round filter capacitors. It also has solid reinforcing brackets between the panel and chassis and was not supplied with a dust cover. Depending upon serial number, the RA-74-D may have either round or rectangular transformers and chokes.

Although not necessarily officially supplied with all of them, the RA-74-(\*) (note: -(\*) means any rev letter) will run the BC-779-(\*), BC-794-(\*), BC-1004-(\*) and R-129/U, as well as Super Pro models SP-110, SP-200, SP-210 and SP-400 (including various suffix letters on the civilian models).

The RA-74-(\*) has a wider input voltage range than either the RA-84-(\*) or RA-94-(\*), (90-260 VAC) and will run on 25-60 Hz. However, the replacement transformer listed in the spare parts list for all of the supplies has about the same choices of input voltage and the same 25-60 Hz frequency rating as that listed for the RA-74-D (high serial numbers) so who knows what you'll actually find!

73, Robert Downs, WA5CAB  
103012.2130@compuserve.com

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996

From: azoth@netcom.com (Az0th)

Subject: Re: RA-74-C/D BA 438

Message-ID: <199601241535.KAA15645@netcom6.netcom.com>

Hi Bob,

>... The RA-74-D uses 5U4G and 5Y3GT rectifiers and has 12 individual round  
> filter capacitors. It also has solid reinforcing brackets between the panel  
> and chassis and was not supplied with a dust cover. Depending upon serial  
> number, the RA-74-D may have either round or rectangular transformers and  
> chokes.

That's the puppy, in my case with the rectangular iron. It's got a new line cord, and from the empty holes left behind looks to have had the usual leaky line bypasses removed/replaced. This one also has a 5U4GB and a 5Y3WGTA for the 5U4 and 5Y3 bottles, respectively.

> The RA-74-(\*) has a wider input voltage range than either the RA-84-(\*) or

> RA-94-(\*) , (90-260 VAC) and will run on 25-60 Hz.

So says the front panel tag on this one. Since I don't yet know what to expect, I haven't metered the voltages being fed up to the BC-779-B, but the cable between the two units is a long black \_cotton\_ covered multi-conductor, each ~18 AWG stranded wire of which is also cotton covered.

Now, except for some end fraying of the outermost sheath, from one end to the other this all looks to be in quite servicable shape, but without stripping off the outer sheath and inspecting each individual wire, this can only be a guess. Not being one to sacrifice safety for authenticity, my inclination is to replace this feed with something more predictable (besides separating out and twisting the AC feeds, a different issue.)

This provokes a couple of questions:

- 1) Is this the kind of cable used originally? Methinks it probably was.  
(If it wasn't, what was?)
- 2) At rx voltage/current levels, would normal aging and flexing render old, cotton covered multiconductor cable unsafe? Methinks it probably doesn't, up to a point.

'Probably' means a SWAG, but I'll bet somebody here knows considerably more than I do regarding cotton, cotton over silk, cotton over gutta percha, or whatever kind of insulation was in use circa WWII and after. Lovely stuff, but is it safe?

Disassembly and cleaning of the BC-779-B proceeds apace, somewhat delayed by half a weekend blown learning how to program a #?\*@! freakin' FT-11. I've gained a whole new appreciation for the simplicity of BA user interfaces... ;-}

73 de KF4FJH - RF Buchanan (azoth@netcom.com)

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996

From: doonan@cordmc.dnet.etn.com (DENNIS DOONAN X6916 (KG9DO))

Subject: RE:re:FleaSpeak

Message-ID: <9601241729.AA00629@etn.com>

Subj: RE: Fleaspeak

Sandy W5TVW said:

>A little later, W5ABC asked you if you had an XYZ for sale? "Yes, I did"  
>you reply, "But I sold it a while ago!". Then W5ABC says,"Well there is one  
>at table 15 across the market for sale for \$60!" Curious, you have W5ABC  
>watch your table and you go to table 15. Right there is your ex-XYZ and the  
>guy that almost cried who bought it from you, happy as a full puppy!

The funny thing is, you may just see the item being dragged to the next 6 shows with the \$60 price. The "new owner" will not be able to figure out why it has gone unsold. He may even sell it at the end of the season for \$20. I love it when that happens.

Keep the bolltes glowing  
73 de Dennis, KG9D0  
doonan@cordmc.dnet.etn.com

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: jmartin@hrlban1.aircrew.asu.edu  
Subject: Rubber stamps  
Message-ID: <SA39+shY,la@hrlban10.alhra.af.mil>

Allan Fritsche asked:  
.does anyone have a stencil or a rubber stamp to redo the ugly green wording on the speaker, "The HalliCrafters Co." and "R-46"? If not, surely a rubber stamp company can make, maybe? Has anybody had any experience in this area?

=====  
I've had custom rubber stamps made before, and it should be easy to get one made in virtually any pattern you want. Check with office supply stores in your area, or look in the yellow pages under 'rubber products.' Many of these companies can do other artwork (i.e., silkscreening, engraving) as well to help make scruffy BAs look like spiffy BAs.

73, John Martin  
jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "Cal J. Eustaquio" <ceustaqu@violin.aix.calpoly.edu>  
Subject: Re: Rubber stamps  
Message-ID: <Pine.A32.3.91.960125073910.36538B-100000@violin.aix.calpoly.edu>

Did anyone ever do the rubber stamp procedure as was mentioned on this BA channel? I'm contemplating that but just for kicks, I'm trying to find out the results from others. Cal.

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: "John H. Strunck III" <1jhs9867@tstc.edu>  
Subject: S-38D tuning dail background paper.  
Message-ID: <Pine.SOL.3.91.960124104607.4626A-100000@waco.tstc.edu>

Does anyone have the dial background paper for the Hallicrafters S-38D? Can a printing shop reproduce the whole thing from scratch? Just to be

sure, I am refering to the part that has all of the frequencies and it also shows where to tune to get a certain part of the world.

Take Care,  
John Strunck

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: "Allan Fritsche" <fritsche@msn.com>  
Subject: Small alignment problem - SX-101  
Message-ID: <UPMAIL03.199601240258510952@msn.com>

Hi Gang, I just realized that I don't have a Sig Gen that will align the the SX-101 50.75KC stage. All ive got is an old Heath IG-102 that goes down to 100KC. Can I use the harmonics and will it be accurate or should I just let that stage alone, it seems to be pretty sensitive, but you never know. Any ideas from the group wpould be appreciated.

fritsche@msn.com

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: w7ni@teleport.com (Stan Griffiths)  
Subject: Re: Solder gun tips  
Message-ID: <199601240843.AAA03896@desiree.teleport.com>

> Anyone know where I can get replacement tips for  
> my aged-but-reliable Weller 8100 gun? Radio Shack doesn't carry  
> them.....  
>  
> 73,  
>  
> Paul, K4MSG

I got an 8100 at an estate sale and posted it here for sale. \$10. No takers. Anyway, it needed a new tip and my local supplier did not have them and said Weller did not make them anymore. (Other messages about this seem to contradict this.) He did have tips for the 8200 (I think that was the model) which looked like they would fit so I bought a package of two. I installed one and it seems to work just fine.

Stan W7NI@teleport.com

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: David Adams <dave@flowserver.stem.com>  
Subject: Speaker and Handbook needed  
Message-ID: <9601252313.AA11807@flowserver.stem.com>

Greetings! Well, my S-27 is crawling along and it's time to start to start thinking about finding an appropriate speaker. I believe the PM-23, R-8 and R-12 would be the technically appropriate choices, but really any big H speaker will do. Anyone have something lying about?

Also, looking for a 1968 ARRL handbook...anyone?

Dave

---

-----  
David J Adams                               N9UXU QRP-L #83  
dave@flowserver.stem.com               NorCal QRP #1442  
(415) 813-5028                       Flow Cytometry Specialist

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>  
Subject: RE: SPEAKING OF OLD RIGS....  
Message-ID: <48384.owen@apollo.eeel.nist.gov>

Since there seems to be a large? number who have the wobble problems with the Heath SB series rigs and since I sucessfully fixed mine a number of years ago I will edit and post the suggestions I gave in private E-mail to Dave KK5HA.

I owned as SB-100 for better than 15 years and it was my main rig most of that time and I also had the wobble problem. I think that the only difference in the SB-102 LMO is that it was made solid state. The problem with mine was that the end bearings in the LMO capacitor got worn. When torque was applied to the shaft the shaft first moved sideways before it started turning. The fix was very easy but took some time. The LMO has to be removed from the rig and the case taken apart, not hard but again it takes some time. I took the tuning capacitor completely out but that may not be required. BTW this did not effect the tuning of the LMO very much. If you look at the back end of the capacitor you will see that there is an adjustment for endplay. Just back off the locknut and turn the adjustment slightly to put a little more force on the rotor shaft and then reset the locknut. This may be all that is required. If you like

check the slip-ring type of connection that grounds the rotor to be sure its making good contact. Of course check the pinch drive on the dial to be sure its not slipping but I never had any trouble with this. I must say that from what I'm told the LMO from the SB-100 and early SB-101's was better than the LMO that was used in the SB-102. If you find that you can't fix yours than maybe you could find a junk SB100/101 and use the tube type LMO. This wouldn't be hard to do but you would need an SB100/101 schematic to see where the B+ was picked up. This was a great rig and just kept on working. Hope you get it fixed and if I can answer any other questions just ask. As an aside I also ran the SB-100 mobile for better than 10 years using a Linear Systems 400-12 power supply set to the 850v B+ tap. With full carrier the plate current was about 400 ma. Thats right 340 watts input, quit a bit above the ratings for a pair of 6146's and I have seen 250 to 270 watts output on the bird 43. In these 10 years at this level I replaced the finals only once. This was SSB of course and tune-up had to be done quick. This shows how rugged the SB series and 6146's are. Of course it could also show how stupid I was/am. 73 Jim K4CGY  
>

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: Chuck Penson <penon@sci.mus.mn.us>  
Subject: Re: SPEAKING OF OLD RIGS....  
Message-ID: <3107D77E.4E5F@sci.mus.mn.us>

James C. Owen, III wrote:

<snip>

> must say that from what I'm told the LMO from the SB-100 and early  
> SB-101's was better than the LMO that was used in the SB-102. If you  
> find that you can't fix yours than maybe you could find a junk SB100/101  
> and use the tube type LMO. This wouldn't be hard to do but you would

My understanding is that there are mechanical difference between the tube-type LMO of the 100/101 and the solid-state version of the 102 that makes it difficult (impossible?) to swap them. Can anyone verify this?

--

Chuck Penson  
Education Division  
Science Museum of Minnesota

penon@sci.mus.mn.us  
612.221.4510 voice  
612.224.5092 fax

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Farady

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>  
Subject: Re: SPEAKING OF OLD RIGS....  
Message-ID: <52020.owen@apollo.eeel.nist.gov>

In message Thu, 25 Jan 1996 13:18:22 -0600,  
Chuck Penson <penson@sci.mus.mn.us> writes:

> James C. Owen, III wrote:  
>  
> <snip>  
>  
>  
>> must say that from what I'm told the LMO from the SB-100 and early  
>> SB-101's was better than the LMO that was used in the SB-102. If you  
>> find that you can't fix yours than maybe you could find a junk  
>> SB100/101 and use the tube type LMO. This wouldn't be hard to do but  
>> you would  
>  
> My understanding is that there are mechanical difference between the  
> tube-type LMO of the 100/101 and the solid-state version of the 102  
> that makes it difficult (impossible?) to swap them. Can anyone  
> verify this?  
>  
> --  
> Chuck Penson  
There could be internal mechanical differences and if so the repair may  
be different than what I described for the 100/101 but this wouldn't matter  
if you swapped them. They mate to the same dial mechanism and mount to the  
same spot on the chassis using the same footprint and mounting holes. The  
only difference is you must have filaments and B+ for the tube instead of  
low B+ for the transistor oscillator. 73 Jim K4CGY

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: WalterLP@aol.com  
Subject: subscription  
Message-ID: <960123230848\_125374101@mail04.mail.aol.com>

subscribe

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: "S. Miller" <smiller@motown.ge.com>  
Subject: Re: Surplus Sales of Nebraska/Fair Radio Sales  
Message-ID: <199601241251.HAA03851@bear.MOTOWN.GE.COM>

Anyone got the phone number for Surplus Sales of Nebraska?  
(I knjow I know, I must be crazy but what can I say?)  
thanks  
Steve  
smiller@motown.ge.com

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: "David L. Thompson" <thompson@mindspring.com>  
Subject: Swan Mark 1 for sale  
Message-ID: <199601252331.SAA12931@borg.mindspring.com>

For Sale: Swan Mark 1 amp with manual. Was being modified by an SK so will need some work. All parts including cabinet and 3-400's are there and look OK.

Asking \$150 and prefer pick-up( near Atlanta). Dave, K4JRB. Reply via thompson@mindspring.com or 770-448-9836 days.

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>  
Subject: table radio  
Message-ID: <2D553D6C30@sbii.sb2.pdx.edu>

Yo all,

I was just given the following item which I am not interested in:

A Westinghouse AM table radio with 5 tubes. It is in a beige plastic case about 6 inches high, 8 inches long and 5 inches deep and weighs maybe 2 lbs. It is complete but I've not tried to plug it in.

If you or anyone you know collects these things (perfect for a 1950 American kitchen restoration) please let me know.

I'll stick it in a box and address it to you for \$5.00 plus shipping. If you send me a self-addressed box with packing material you can have it for free (but still pay shipping).

Later,

=Randy=

Randy Zelick  
Dept. Biology  
Portland State University  
P.O. Box 751  
Portland, OR 97207  
503-725-3086 (voice), 503-725-3864 (fax)

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: Phillip Porch <pporch@theporch.com>  
Subject: Thanks  
Message-ID: <Pine.AUX.3.91.960125182017.2910A-100000@uro.theporch.com>

I want to thank those of you who have contributed so far to defray the cost of the mailing list. I am not a ham radio person myself but do supply the hardware and network connection for the list to run on. The costs of the list are mine and to let you know what these are I will list them.

1. ISDN Startup fee with my ISP - just over \$1,000
2. ISDN Monthly fee with my ISP - \$200 per month
3. Netblazer PN2 router for the connection - \$1,600

With the contributions so far, I am about \$1000 shy of breaking even for last year and if you don't consider the cost of the netblazer (I guess I might have gotten one anyway), I am ahead.

I want to thank you as a group very much. I will be using the excess to add equipment to help cut the load on my single machine and also probably to increase the bandwidth of the network link.

I don't really have time to thank each of you individually as my real job keeps me hopping.

Those of you who haven't paid yet, please put your email address in the letter or on the check. When the time comes for Jack to review the list, the email address will make it much easier.

I'm sorry if the service seems low today, as there was a router problem down the line yesterday and it is taking a while to remove the backlog of messages. I have over 17,000 messages in the queue to go out.

--

Phillip P. Porch <pporch@uro.theporch.com> finger for pgp key

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: cooper@gmpvt.com (Tom Cooper)  
Subject: Thanks for 7360 info  
Message-ID: <199601241917.0AA05179@web.gmpvt.com>

Thanks to the many respondents to my question about 7360 tube prices. \$27.50 was the lowest price anyone had heard of, and it averaged about \$40!

I found a SS-1R and SS-1V and hope to have them in a week or so. (I must have looked at 50 hamfests and never saw any.) Now I need the manuals and a SS-1S/speaker. Can anyone help me with these? I'd be happy to pay for copying and postage.

73,

Tom WA1GUV  
cooper@gmpvt.com

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: Andy Wallace <wallace@mc.com>  
Subject: the MINTS are bitter today!  
Message-ID: <9601242050.AA14164@taku>

----- Begin Included Message -----

From: billo@nti.net (Bill Wilson)  
Subject: fleaspeak

Last summer at the Atlanta fest I bought a "Mint" (an overused word, most "mint" rigs I see had a fire at the mint that day!) Hammarlund transmitter.

----- End Included Message -----

Many years ago I lent a beloved NC-98 to a cousin and never saw hide nor hair of the cousin or the radio since. So I was searching for another to replace it about four years ago. Finally spotted one. Marked MINT, \$85. Was repainted flat grey, had stickers on the dial to mark SWBC station frequencies.

Obviously, I passed.

The seller was an old-timer. Oh well, not every QCWA member is an Elmer. :-D

I found one for \$33 later on, in honestly "dirty" condition. (Gee, I think I bought it out from under KA1CX, too .... sorry Rhyne (grin).) [I believe he forgave me.] Anyway, it was a lot of fun to clean it up and get it working again. And when all was said and done, the condition was really pretty good, certainly as good as mine would have been if I had kept it for another ten years.

So the moral is, them MINTS is pretty danged common nowadays and my first question about MINT rigs is, did the smoke come out the back or the side?

73,  
--Andy  
wallace@mc.com

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: wb6zwc@ns.net  
Subject: transformer testing  
Message-ID: <2.2.16.19960124173729.252fd37c@ns.net>

Have old commerical transformer. Broadcast service rated at 6.6 kva.  
Has muptiple taps on primary and a non-center tapped secondary. It is single phase at 220 volts.

How does one test this brute for insulation integetry other than an ohmmeter?

Without using some unusual equipment ie. highpot testing, etc. Some reliable test I can do on my work bench.

Richard

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: fhartery@KEAN.UCS.MUN.CA  
Subject: Tube specs needed  
Message-ID: <0099CD82.9E7FD271.52@leif.ucs.mun.ca>

Hi folks,

I am posting to see if one of you nice folks can offer me some help.  
I need data sheets on the following tubes.

1L6  
1LA6  
1LC6  
DK92  
1R5

Some will recognize these as the infamous pentagrid converters....yep !  
(gasp ! :{0.) Well, I am a T-O nut, you know ;{)

I have tried a full set of RCA transmitting/receiving data sheets  
without success. The 1L... stuff I did find was bare basic.  
It was found in the "not recommended for new designs" section.

I suppose I could dream and wish that someone out there can help ?  
Even pointing a e-finger...provided it's the right one :{)...  
would be deeply appreciated.

Humble thanks in advance,  
Fabe

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: robert fowle <hammarlund@voyager.net>  
Subject: wanted old Hammarlund literiture  
Message-ID: <199601250129.UAA03797@vixa.voyager.net>

goodevening;

I'm looking for any old Hammarlund literiture, i.e. sales catalogs  
(20's, 30's, 40's) spec sheets i.e. HQ-225, HQ-140XA, HQ-120X, SP-600,  
SP-400, SP-200, Comet Pro, or any others not listed, also manuals on Comet  
Pro version's 1 & 5, HX-55, HQ-225. I am looking for Original material only,  
please. Need this information to complete my search. If you have, or , know  
where I can find any of these items, \*Please\* let me know.

Robert Fowle  
the HAMMARLUND historian  
Ph. 517-789-6721  
E-mail: Hammarlund@vixa.voyager.net  
1215 Winifred  
Jackson, Mich. 49202-1946

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: Sandy Blaize <70401.134@compuserve.com>  
Subject: Wanted: BC-221/LM "junkers"

Message-ID: <960125061105\_70401.134\_IHD70-1@CompuServe.COM>

I am looking for one or two BC221 or LM chassis. Preferably units that are missing the calibration book. With the "book" a BC-221 is just an ordinary oscillator without much utility! I am not interested in the big wooden cabinet. Unit need not be working, have tubes or crystal. I am interested in the chassis, panel and tuning capacitor/coils/transformers/sockets.

I have a project I'm working on but don't want to tear up my "intact" BC-221! Is there any "junkers" out there?

73,

Sandy W5TVW

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996

From: "Allan Fritsche" <fritsche@msn.com>

Subject: What a Day

Message-ID: <UPMAIL03.199601240137110880@msn.com>

Greetings Fellow Boats, I took the day off mainly because I had a new washer delivered from Sears, and the old one picked up. I spent the time painting my SX-101 and after drying for six hours I put it all back together. Damm it looks like new. Silver and Antique Black. In the process of doing all this a UPS truck delivered my R-46 speaker I had purchase from a good guy ( Gary Harmon) from San Antonio. Dam what a lot of rust, but workable. Now my question is does anyone have a stencile or a rubber stamp to redo the ugly green wording on the speaker. "tHe HalliCrafters Co." and "R-46". If not suerly a rubber stamp company can make, maybe?. Has anybody had any experience in this area.

fritsche@msn.com

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996

From: Kim Herron <kherron@voyager.net>

Subject: Re: What a Day

Message-ID: <199601241335.IAA18252@vixa.voyager.net>

Hi Gang,

In reply to Al's post,

> In the process of doing all this a  
> UPS truck delivered my R-46 speaker I had purchase from a good guy  
> from San Antonio. Dam what a lot of rust, but workable. Now my  
> question is does anyone have a stencile or a rubber stamp to redo the ugly  
> green wording on the speaker. "tHe HalliCrafters Co." and "R-46". If not

>sueryly a rubber stamp company can make, maybe?. Has anybody had any experience  
>in this area.

There is a company that makes the material that allows you to make a decal on a color copier. I'm sure that I've heard it mentioned here, but I can't recall the name.

That would solve the problem, because the silkscreening he is referring to is very small, and the copier would give him the proper color. Kinko's has helped me out with making new faces for 12 and 24 hour Hammarlund clocks and the same kind of process should work here. Any body remember what I'm talking about??

KIM

From boatanchors@theporch.com Thu Jan 25 18:38:32 1996  
From: Nick England <nick@cs.unc.edu>  
Subject: Wobbly SB LMO advice  
Message-ID: <199601251950.0AA23038@altair.cs.unc.edu>

Wow! What a response - I have passed along the extremely good info to my friend with the wobbly SB-102, and also collected the info in a file. Drop me a note if you want a copy. I also apologize for not digging deep enough in my files to find Bill Fuqua's article on disassembly/lube procedure from last year.

I guess I'll also send on the file to Jack for the archives.  
73 & have fun,  
Nick KD4CPL  
nick@cs.unc.edu

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: aculbert@pps1-po.phyp.uiowa.edu  
Subject: WTB COLLINS MANUAL  
Message-ID: <199601241527.JAA27681@ns-mx.uiowa.edu>

I would like to purchase an original manual for a Collins 312B-4.

Long and sad story, I borrowed such a manual from a trusting soul and took it to a "copy center" (unnamed to protect the guilty) and they cut the damn thing open so they could automatically feed it into their machine!

Al, K0AL

allan-culbert@uiowa.edu

From boatanchors@theporch.com Thu Jan 25 08:41:42 1996  
From: johnmb <johnmb@nando.net>  
Subject: WTB: Rack, RX  
Message-ID: <Pine.SUN.3.91.960124082806.5326A-100000@bessel.nando.net>

I'm looking for a 30"-35" tall 19" relay rack to house my  
Globe King sections, and am also still looking for a  
ar/cr88 or 77 receiver (RCA).

I'm in the Triangle area of NC.  
Best  
/john

From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: rovernet@ganglion.anes.med.umich.edu  
Subject: [Rovernet] (Fwd) (Fwd) Virus Alert !!  
Message-ID: <199601250115.TAA23961@uro.theporch.com>

Received: (from majordom@localhost) by ganglion.anes.med.umich.edu (8.6.11/8.6.9)  
id SAA21174 for rovernet-outgoing; Wed, 24 Jan 1996 18:37:02 -0500  
Received: from gpnet.it (home.gpnet.it [194.20.176.1]) by  
ganglion.anes.med.umich.edu (8.6.11/8.6.9) with SMTP id SAA21164 for  
<rovernet@ganglion.anes.med.umich.edu>; Wed, 24 Jan 1996 18:35:24 -0500  
Received: from ts3103.gpnet.it by gpnet.it with smtp using sendmail  
(Smail3.1.29.1 #4) id m0tfEjR-000gJ7C; Thu, 25 Jan 96 00:36 MET  
Message-Id: <m0tfEjR-000gJ7C@gpnet.it>  
X-Sender: kado@pop.gpnet.it  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
From boatanchors@theporch.com Thu Jan 25 10:08:28 1996  
From: kado@gpnet.it (Black Angel)  
Subject: [Rovernet] (Fwd) (Fwd) Virus Alert !!

>Return-Path: <NULL@rotor.com>  
>X-UIDL: 822524971.006  
>Date: Mon, 22 Jan 1996 04:11:15 -0800  
>X-Sender: toddw@pop.seanet.com  
>To: av-rotor@rotor.com  
>From: Todd Wilburn <toddw@toddw.seanet.com>  
>Subject: (Fwd) (Fwd) Virus Alert !!  
>X-Info: To unsubscribe, send e-mail to Listserv@rotor.com  
>Error-To: david.lutes@rotor.com  
>Reply-To: av-rotor@rotor.com  
>X-ListMember: KADO@GPNET.IT

>  
>I dont know how real a threat this is but here it is  
>  
>>Date: Mon, 22 Jan 1996 10:15:17 GMT  
>>Reply-to: EOSBOURNE@rvc.ac.uk  
>>From: EOSBOURNE@rvc.ac.uk (Elizabeth Osborne)  
>>To: Multiple recipients of list <links@imperial.ac.uk>  
>>Subject: (Fwd) Virus Alert !!  
>>  
>>>  
>>Subject: Virus Alert !!  
>>>Date: Fri, 19 Jan 1996 09:59:25 -0000  
>>>

\*\*\*\*\* ALERT \* ALERT \* ALERT \* ALERT \* ALERT \* ALERT \*\*\*\*\*

\*\*\*\*\*

MESSAGE FROM ITALY --- SOMEONE IS INFECTED YET !!!

PAY MAX ATTENTION ! DEFCON 2 !

NO ANTIVIRUS IS KNOWED AT THE MOMENT ! 4 PEOPLE INFECTED IN MY CITY VICENZA

ITALY NORTH EAST !

alert alert

NICK

>>>SUBJECT: VIRUSES--IMPORTANT PLEASE READ IMMEDIATELY

>>>

>>> There is a computer virus that is being sent across the  
>>> Internet. If you receive an e-mail message with the subject  
>>> line "Good Times", DO NOT read the message, DELETE it  
>>> immediately. Please read the messages below. Some miscreant  
>>> is sending e-mail under the title "Good Times" nation wide,  
>>> if you get anything like this, DON'T DOWN LOAD THE FILE! It  
>>> has a virus that rewrites your hard drive, obliterating  
>>> anything on it. Please be careful and forward this mail to  
>>> anyone you care about.

>>>

>>>\*\*\*\*\*

>>> WARNING!!!!!!! INTERNET VIRUS

>>>

>>>The FCC released a warning last Wednesday concerning a  
>>> matter of major importance to any regular user of the  
>>> Internet. Apparently a new computer virus has been  
>>> engineered by a user of AMERICA ON LINE that is unparalleled  
>>> in its destructive capability. Other more well-known viruses  
>>> such as "Stoned", "Airwolf" and "Michaelangelo" pale in  
>>> comparison to the prospects of this newest creation by a  
>>> warped mentality. What makes this virus so terrifying, said  
>>> the FCC, is the fact that no program needs to be exchanged  
>>> for a new computer to be infected. It can be spread through  
>>> the existing e-mail systems of the Internet. Once a Computer  
>>> is infected, one of several things can happen. If the  
>>> computer contains a hard drive, that will most likely be  
>>> destroyed. If the program is not stopped, the computer's  
>>> processor will be placed in an nth-complexity infinite binary  
>>> loop -which can severely damage the processor if left running  
>>> that way too long.

>>> Unfortunately, most novice computer users will not  
>>> realize what is happening until it is far too late. Luckily,  
>>> there is one sure means of detecting what is now known as the  
>>> "Good Times" virus. It always travels to new computers the  
>>> same way in a text email message with the subject line  
>>> reading "Good Times". Avoiding infection is easy once the  
>>> file has been received- not reading it! The act of loading  
>>> the file into the mail server's ASCII buffer causes the "Good  
>>> Times" mainline program to initialize and execute.

>>> The program is highly intelligent- it will send copies of  
>>> itself to everyone whose e-mail address is contained in a  
>>> receive-mail file or a sent-mail file, if it can find one. It  
>>> will then proceed to trash the computer it is running on. The  
>>> bottom line here is - if you receive a file with the subject  
>>> line "Good Times", delete it immediately! Do not read it!  
>>> Rest assured that whoever's name was on the "From" line was  
>>> surely struck by the virus. Warn your friends and local  
>>> system users of this newest threat to the Internet! It could  
>>> save them a lot of time and money.

>>> ---- End of mail text

>>>

>>>

>>>

>>\*\*\*\*\*

>>G.O.Roberts (RobertsGO@CF.AC.UK)

>>

>

>

>

Nick "Black Angel" Tomba

This message was forwarded to you on 01/24/96 by  
arther dent.